UNITED STATES DEPARTMENT OF COMMERCE United States Patent and Trademark Office Address: COMMISSIONER FOR PATENTS P.O. Box 1450 Alexandria, Virginia 22313-1450 www.uspto.gov

APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	ATTORNEY DOCKET NO. CONFIRMATION NO.	
10/004,001	11/01/2001	Wen Zhao	555255012288 7436		
Joseph M. Sau	7590 08/24/2007 er. Esa.	EXAMINER			
Jones, Day, Reavis & Pogue			PHAM, TUAN		
North Point 901 Lakeside A	Avenue		ART UNIT	PAPER NUMBER	
Cleveland, OH 44114			2618		
			MAN DATE	DELIVERY MODE	
			MAIL DATE	DELIVERY MODE	
			08/24/2007	PAPER	

Please find below and/or attached an Office communication concerning this application or proceeding.

The time period for reply, if any, is set in the attached communication.

		Annihartian Na		Applicant(a)				
		Application No.		Applicant(s)				
Office Action Summary		10/004,001		ZHAO ET AL.				
		Examiner		Art Unit				
		TUAN A. PHAM		2618				
Period fo	The MAILING DATE of this communication app or Reply	ears on the cover s	heet with the co	orrespondence addre	ess			
WHIC - Exter after - If NO - Failu Any	ORTENED STATUTORY PERIOD FOR REPLY CHEVER IS LONGER, FROM THE MAILING DATE IN THE MAIL	ATE OF THIS CON 36(a). In no event, however will apply and will expire SIX , cause the application to b	IMUNICATION r, may a reply be time ((6) MONTHS from the ecome ABANDONED	ely filed he mailing date of this comn) (35 U.S.C. § 133).				
Status								
1)🖂	Responsive to communication(s) filed on 27 Ju	<u>une 2007</u> .						
,—	This action is FINAL . 2b)⊠ This action is non-final.							
3)	Since this application is in condition for allowance except for formal matters, prosecution as to the merits is							
	closed in accordance with the practice under Ex parte Quayle, 1935 C.D. 11, 453 O.G. 213.							
Disposit	ion of Claims							
4)⊠	Claim(s) 42-53 is/are pending in the application	n.						
	4a) Of the above claim(s) is/are withdrawn from consideration.							
•==	5) Claim(s) is/are allowed.							
·	Claim(s) <u>42-53</u> is/are rejected.							
-	7) Claim(s) is/are objected to.							
8)[]	Claim(s) are subject to restriction and/o	or election requirem	ent.					
Applicat	ion Papers							
9)[The specification is objected to by the Examine	er.						
10)□	10) The drawing(s) filed on is/are: a) □ accepted or b) □ objected to by the Examiner.							
	Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).							
l .	Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d). 11) The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.							
11)	The oath or declaration is objected to by the E	xaminer. Note the a	attached Office	Action or form PTO	F-15Z.			
Priority	under 35 U.S.C. § 119							
 12) Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f). a) All b) Some * c) None of: 1. Certified copies of the priority documents have been received. 2. Certified copies of the priority documents have been received in Application No. 3. Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)). * See the attached detailed Office action for a list of the certified copies not received. 								
Attachme		, , ,		(DTO 412)				
	ice of References Cited (PTO-892) ice of Draftsperson's Patent Drawing Review (PTO-948)	· <u> </u>	nterview Summary Paper No(s)/Mail Da	ate				
3) 🔲 Info	mation Disclosure Statement(s) (PTO/SB/08) er No(s)/Mail Date	· 	Notice of Informal P Other:	Patent Application				

Application/Control Number: 10/004,001 Page 2

Art Unit: 2618

DETAILED ACTION

Response to Arguments

1. Applicant's arguments, see Applicant's remark, filed on 06/27/2007, with respect to the rejection(s) of claim(s) 42-53 under 103(a) have been fully considered and are persuasive. Therefore, the rejection has been withdrawn. However, upon further consideration, a new ground(s) of rejection is made in view of McGunnigle (U.S. Patent No.: 4,613,247).

Claim Rejections - 35 USC § 103

- 2. The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:
 - (a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.

This application currently names joint inventors. In considering patentability of the claims under 35 U.S.C. 103(a), the examiner presumes that the subject matter of the various claims was commonly owned at the time any inventions covered therein were made absent any evidence to the contrary. Applicant is advised of the obligation under 37 CFR 1.56 to point out the inventor and invention dates of each claim that was not commonly owned at the time a later invention was made in order for the examiner to consider the applicability of 35 U.S.C. 103(c) and potential 35 U.S.C. 102(e), (f) or (g) prior art under 35 U.S.C. 103(a).

Art Unit: 2618

3. <u>Claims 42-44, and 46-53 are rejected under 35 U.S.C. 103(a) as being unpatentable over Public Application (Nokia user's manual 900i 06/07/1998, hereinafter, "PA") in view of McGunnigle (U.S. Patent No.: 4,613,247).</u>

Regarding claim 42, PA teaches a communication device comprising (see figure 2-11, page 2-10):

a processor for converting the output signal into a character code (see page 3-2, it is obvious that the PDA should be included a processor for converting a signal to character code when the user using the text);

means for converting the output signal into a telephony tone signal (see page 3-2, 4-5, it is obvious that the PDA should be included a processor for converting a signal to telephone tone when the user dial the number, DTMF);

software applications stored by the communication device and executed by the processor (see page 2-8), and

a keyboard mode control software module that automatically controls whether the keyboard output signals from the keys are converted into character codes or telephony tone signals based on which of the plurality of software applications is active (see figure 2-11, the keyboard as shown in figure 2-11 is store plurality of applications to support multiple mode, each mode is associated with different software application. When the user select the telephone mode from the keyboard, the controller automatically run on the telephone software application, and when the user select the calculator mode, the controller automatically run on calculator software application, page 2-8, 2-10, 2-11).

It should be noticed that PA fails to teach a keyboard having at least twenty six

Art Unit: 2618

keys that are each labeled with a different letter of the alphabet and with an assigned number and configured to generate an output signal. However, McGunnigle teaches such features (see figure 10, col.11, ln.55-65).

Therefore, it would have been obvious to one of ordinary skill in the art at the time the invention was made to incorporate the teaching of McGunnigle into view of PA in order to provide an easy format be made available for users in non-english speaking countries as suggested by McGunnigle at col.1, In.45-48.

Regarding claim 43, PA further teaches the numbers 2-9 are assigned respectively to keys labeled A-C, D-F, G-I, J-L, M-O, P-S, T-V and W-Z (see figure 1-1).

Regarding claim 44, PA further teaches QWERTY keyboard (see figure 2-11).

Regarding claim 46, PA further teaches a mode key with which a user can switch conversion of the output signals from telephony signals to character codes (see figure 2-11, application button 1, page 2-10, the user can press the application button 1 to select the mode).

Regarding claim 47, PA teaches a communication device comprising (see figure 2-11, page 2-10):

means for generating, for each key pressed by a user, a telephony tone signal corresponding to the number assigned to the pressed key (see figure 1-1, dial the number on keypad to make a call that will generated the DTMF signal).

It should be noticed that PA fails to teach a keyboard having at least twenty six keys that are each labeled with a different letter of the alphabet and each assigned a number. However, McGunnigle teaches such features (see figure 10, col.11, ln.55-65).

Art Unit: 2618

Therefore, it would have been obvious to one of ordinary skill in the art at the time the invention was made to incorporate the teaching of McGunnigle into view of PA in order to provide an easy format be made available for users in non-english speaking countries as suggested by McGunnigle at col.1, In.45-48.

Regarding claim 48, PA further teaches the numbers 2-9 are assigned respectively to keys labeled A-C, D-F, G-I, J-L, M-O, P-S, T-V and W-Z (see figure 1-1).

Regarding claim 49, PA further teaches QWERTY keyboard (see figure 2-11).

Regarding claim 50, McGunnigle further teaches each key is labeled with its assigned number (see figure 10, col.11, ln.55-65).

Regarding claim 51, PA teaches a communication device (see figure 2-11, page 2-10):

It should be noticed that PA fails to teach a keyboard with letters arranged in a QWERTY configuration, each of the letters being assigned a number in the range 0-9; and the device being operative, for each letter pressed by a user, to communicate the number assigned to the pressed letter. However, McGunnigle teaches a keyboard with letters arranged in a QWERTY configuration, each of the letters being assigned a number in the range 0-9 (see figure 10, col.11, ln.55-65, it is clearly seen that the keyboard of McGunnigle use the number 1 to 30. It appear to examiner that use the number in the range 0-9 that would depend more upon the choice of the manufacturer and the choice of engineering, than on any inventive concept); and the device being operative, for each letter pressed by a user, to communicate the number assigned to

Art Unit: 2618

the pressed letter (see figure 10, the user press the letter D that will corresponding with number 10 on the key).

Therefore, it would have been obvious to one of ordinary skill in the art at the time the invention was made to incorporate the teaching of McGunnigle into view of PA in order to provide an easy format be made available for users in non-English speaking countries as suggested by McGunnigle at col.1, ln.45-48.

Regarding claim 52, PA further teaches the numbers 2-9 are assigned respectively to keys labeled A-C, D-F, G-I, J-L, M-O, P-S, T-V and W-Z (see figure 1-1).

Regarding claim 53, PA further teaches the communicating of the numbers is through telephony tone signals (see figure 1, DTMF tone).

4. Claim 45 is rejected under 35 U.S.C. 103(a) as being unpatentable over

Public Application (Nokia user's manual 900i 06/07/1998, hereinafter, "PA") in

view of McGunnigle (U.S. Patent No.: 4,613,247) as applied to claim 42 above, and

further in view of Hidaka (U.S. Patent No.: 6,081,548).

Regarding claim 45, PA and McGunnigle, in combination, fails to teach display the character codes. However, Hidaka teaches such features (see col.2, ln.45-55).

Therefore, it would have been obvious to one of ordinary skill in the art at the time the invention was made to incorporate the teaching of Hidaka into view of PA and McGunnigle in order to convert the letter to the ascii for use in the telephone system.

Application/Control Number: 10/004,001 Page 7

Art Unit: 2618

Conclusion

5. Any inquiry concerning this communication or earlier communications from the examiner should be directed to Tuan A. Pham whose telephone number is (571) 272-8097. The examiner can normally be reached on Monday through Friday, 8:30 AM-5:30 PM.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Matthew Anderson can be reached on (571) 272-4177. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have question on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

Technology 2600 Art Unit 2618

August 16, 2007

Examiner

Tuan Pham